

## CLAIMS

1. Use of recombinant vectors of viral origin, incapable of replication and capable of being recognized by the receptors of human and animal muscle cells which can be infected with these viruses, these viruses being in addition modified by a nucleic acid insert containing a nucleotide sequence coding for a polypeptide sequence, the expression of which in the said muscle cells is sought this sequence being under the control of a promoter recognized by the polymerases of these cells for the production of a drug composition which can be administered by the general route, in particular the intravenous or intraarterial route, and is designed for the treatment of either diseases affecting the muscle cells or diseases, the localization of which in the organism makes them accessible to the expression products of the above-mentioned nucleotide sequence secreted by said muscle cells.
2. Use of vectors according to Claim 1, characterized in that these vectors are selected from defective adenoviruses, the genomes of which lack essential sequences necessary for the replication of these adenoviruses, and more particularly the EA and EB transactivators.
3. Use of vectors according to Claim 1 or Claim 2, characterized in that the nucleic acid insert is included in a defective adenovirus genome comprising nonetheless all of the essential sequences necessary for the encapsidation of these adenoviruses.
4. Use of vectors according to one of the Claims 1 to 3, characterized in that the nucleic acid insert is constituted by all or part of a healthy gene for dystrophin.
5. Use of vectors according to one of the Claims 1 to 4 for the production of a medicine designed for the treatment of Duchenne's muscular dystrophy.
6. Use of vectors according to any one of the Claims 1 to 3 for the production of drug compositions for the treatment of cardiac diseases, characterized in that the nucleic acid insert codes for a protein or polypeptide having thrombolytic properties.
7. Recombinant vector characterized in that it is constituted by a defective genome of an adenovirus, nonetheless comprising all of the essential sequences necessary for the encapsidation of this adenovirus, and in which is inserted a recombinant nucleic acid, the diffusion of which into the

...this nucleic acid being recognized as a strong promoter for the replication of the viruses.

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Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	